



ROYCE ENERGY

CHARGING THE FUTURE, POWERING YOUR TODAY

100%
REAL CAPACITY

100A
MAX DISCHARGE CURRENT

3 YEARS
WARRANTY



LEP12 SERIES

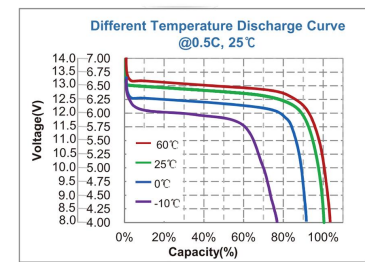
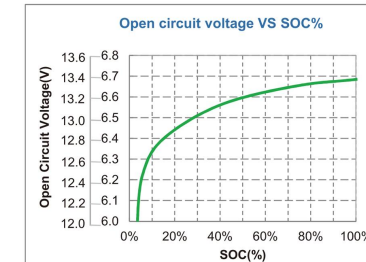
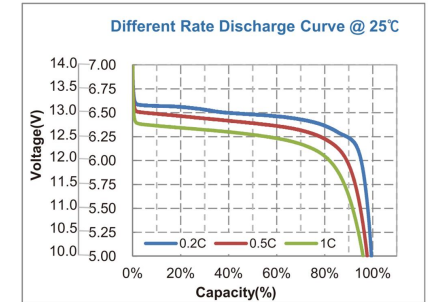
The LEP 12V Series Deep Cycle Lithium Iron Phosphate Battery is using LiFePO4 battery cell which has superior safety. Frequently apply to UPS, Solar/Wind power system, Golf Cart, electric vehicle, E-bike as power supply.

Features

- Brand New lithium iron phosphate cell technology, superior safety
- Very long usable life: 3 years limited warranty, 10 years life design, & 24-hour timely assistance
- Cycle Life: >5000 cycles, @0.5C Charge/Discharge, 100%DOD, under normal conditions
- Intelligent BMS battery management system with low-temperature cut-off
- Built-in automatic protection for over-charge, over discharge, over current and over temperature
- 40% ~50% lighter than a lead-acid battery
- One stop for upgrade from lead-acid to lithium
- Support series, parallel, or series-parallel connections

Main Features

- Using the technology of lithium iron phosphate cell, superior safety, thousands of cycles, 100%DOD, under normal conditions
- Built-in automatic protection for over-charge, over discharge, over current and over temperature
- Maintenance free
- Internal cell balancing
- Lighter weight: About 40% ~50% of the weight of a comparable lead acid battery.
- Can be charged using most standard lead-acid charges (set)
- Wider temperature range: -20°C ~60°C



Technical Parameter

| MODEL | LEP12-7 | LEP12-9 | LEP12-24 | LEP12-36 | LEP12-50 | LEP12-100 | LEP12-150 | LEP12-200 |
|-------------------------------------|---|------------|------------|-------------|-------------|-------------|-------------|-------------|
| Norminal voltage | 12.8V | 12.8V | 12.8V | 12.8V | 12.8V | 12.8V | 12.8V | 12.8V |
| Nominal Capacity @0.2C | 7.2Ah | 9Ah | 21.6Ah | 36Ah | 50Ah | 100Ah | 150Ah | 200Ah |
| Energy(Wh) | 92.1Wh | 115.2Wh | 276.4Wh | 460.8Wh | 640Wh | 1280Wh | 1920Wh | 2560Wh |
| Cycle Life | >2000 Cycles @ 0.5C Charge/Discharge at 100%DOD, End of Life 70% Capacity | | | | | | | |
| Months Self Discharge | ≤3.5% per month at 25°C | | | | | | | |
| Standard Charge | | | | | | | | |
| Charge Voltage | 14.4±0.2V | | | | | | | |
| Charge Mode (CC/CV) | At 0°C~50°C temperature, charged to 14.4V at a constant current of 0.5C, and then, changed continuously with constant voltage of 14.4V until the current was not more than 0.02C. | | | | | | | |
| Max.continuous Charge Current | 7.2A | 10A | 22A | 36A | 50A | 100A | 100A | 100A |
| Standard Discharge | | | | | | | | |
| Max. Continuous Discharging Current | 10A | 13A | 32A | 40A | 50A | 100A | 100A | 100A |
| Max.Pulse Current | 20A @10S | 20A @10S | 60A @10S | 80A @10S | 100A@10S | 200A @10S | 200A @ 10S | 200A @10S |
| Discharge Cut-off Voltage | 9.8V | | | | | | | |
| Environmental | | | | | | | | |
| Charge Temperature | 0°C to 50°C (32°F to 113°F) @60±25% Relative Humidity | | | | | | | |
| Discharge Temperature | -20°C to 60°C (-4°F to 140°F) @60±25% Relative Humidity | | | | | | | |
| Storage Temperature | 0°C to 45°C (32°F to 113°F) @60±25% Relative Humidity | | | | | | | |
| Water Dust Resistance | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| Mechanical | | | | | | | | |
| Plastic Case | ABS | | | | | | | |
| Dimension(L*W*H) (mm) | 90*70*107 | 151*65*100 | 181*77*167 | 198*166*170 | 229*138*213 | 328*172*215 | 328*172*215 | 522*240*218 |
| Approx. Weight(Kg) | 0.9 | 0.97 | 2.1 | 4.5 | 6.5 | 11.8 | 16.5 | 26 |
| Terminal | T2 | T2 | M5 | M8 | M6 | M8 | M8 | M8 |

Product specifications are subject to change without notice.

When it comes to reliability, our lithium batteries won't let you down. Get in touch with your local distributor. Visit www.lithiumbatts.com or talk to one of our Certified ROYCE ENERGY.

Email us: sales@royce-energy.com